Non-Automotive Gasoline Engines

Recommendations for Further Consideration



Sandy Krietzman Workgroup Leader November 14, 2005

Workgroup Background

 Goal: To develop recommendations to control and/or reduce VOC, NO_x and PM emissions from off-road "spark-ignited" engines.

Examples:

- Lawn & Garden Equipment
- Recreational Marine Engines
- Industrial Forklifts

Workgroup Background

Members:

- Representatives from the Marine and Landscaping Industry
- Educational institution representative
- State representatives from NJMVC, NJDOT, NJDMAVA, and NJDEP

Four meetings during the summer of 2005

Recommendations for Further Consideration by NJDEP

Categories of Recommended Measures for Further Consideration by NJDEP

- Accelerated Equipment Turnover Programs
- Modification of Activities / Operations
- Educational Programs
- Best Management Practices on Fuel Handling
- Other

Accelerated Equipment Turnover Programs – Voluntary

- Boat engine replacement program
 - Replace older engines with units that meet 2006 model year USEPA or CARB standards
- Commercial landscape equipment replacement program
 - Replace older equipment with equipment meeting the most stringent emission standards
- Replacement of residential gas-powered chainsaws with newer technology
 - Replace gasoline powered chainsaws with either electric chainsaws or cleaner technology

Accelerated Equipment Turnover Programs – Voluntary

- "Star" type recognition programs for landscaping operations using cleaner equipment and practices
 - Similar to the "Energy Star" program

Accelerated Equipment Turnover Programs – Mandatory

- State agencies to purchase equipment that meet the cleanest emission standards
 - Modification of state purchasing contract language

Modification of Activities and Operations – Mandatory

 Restrict government landscaping equipment activities on ozone and/or PM action days

 Restrict use of certain equipment (leaf blowers, trimmers, etc.) on ozone and PM action days

Educational Programs – Voluntary

 Public education on best management practices to reduce emissions

Public education on alternative, low maintenance landscapes

Public education on reducing large lawn areas

Best Management Practices on Fuel Handling – Mandatory

 Vapor recovery compatibility for boats that are filled at automobile gas stations

 Vapor recovery for refueling gasolinepowered aircraft

 Insure proper disposal after aircraft "preflight" checks

Other

- Evaluate feasibility of low-emitting forklift program when finalized in California
 - Manufacturers required to have retrofit kits available
 - New forklifts required to meet the most stringent emission standards

White Papers Submitted

 National Marine Manufacturers Association and Marine Trades Association of New Jersey

New Jersey Department of Transportation

Next Steps...

State Team Members

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